AMENDMENTS TO THE CLAIMS

- (Currently amended) A method for isolating access by application programs to native resources provided by an operating system, the method comprising the steps of:
 - (a) redirecting, to an isolation environment comprising a user isolation scope and an
 application isolation scope, a request for a native resource <u>provided by an
 operating system, the request</u> made by a process executing on behalf of a first
 user;
 - (b) locating an instance of the requested native resource in the user isolation scope on behalf of a first user; and
 - (c) responding to the request for the native resource using the instance of the requested native resource located in the user isolation scope.
- (Previously presented) The method of claim 1 wherein step (b) comprises failing to locate an instance of the requested native resource in the user isolation scope.
- (Original) The method of claim 2 wherein step (c) comprises redirecting the request to the application isolation scope.
- 4. (Previously presented) The method of claim 3 further comprising the steps of:
 - (d) locating an instance of the requested native resource in the application isolation scope; and
 - (e) responding to the request for the native resource using the instance of the requested native resource located in the application isolation scope.
- 5. (Previously presented) The method of claim 4 wherein step (e) comprises creating an instance of the requested native resource in the user isolation scope that corresponds to the instance of the requested native resource located in the application isolation scope

and responding to the request for the native resource using the instance of the requested native resource created in the user isolation scope.

- (Original) The method of claim 4 wherein step (d) comprises failing to locate an instance of the requested native resource in the application isolation scope.
- (Previously presented) The method of claim 6 wherein step (e) comprises responding to the request for the native resource using a system-scoped native resource.
- 8. (Previously presented) The method of claim 6 wherein step (e) comprises:

creating an instance of the requested native resource in the user isolation scope that corresponds to the instance of the requested resource located in a system scope and responding to the request for the native resource using the instance of the resource created in the user isolation scope.

- (Original) The method of claim 1 further comprising the step of hooking a request for a
 native resource made by a process executing on behalf of a first user.
- 10. (Original) The method of claim 1 further comprising the step of intercepting a request for a native resource executing on behalf of a first user.
- 11. (Original) The method of claim 1 further comprising the step of intercepting by a file system filter driver a request for a file system native resource executing on behalf of a first user.
- 12. (Original) The method of claim 1 wherein step (a) comprises redirecting to an isolation environment comprising a user isolation scope and an application isolation scope a request for a file made by a process executing on behalf of a first user.
- 13. (Original) The method of claim 1 wherein step (a) comprises redirecting to an isolation environment comprising a user isolation scope and an application isolation scope a request for a registry database entry made by a process executing on behalf of a first user.

14. (Previously presented) The method of claim 1 further comprising the steps of:

- (d) redirecting to the isolation environment a request for the native resource made by a second process executing on behalf of a second user;
- (e) locating an instance of the requested native resource in a second user isolation scope; and
- (f) responding to the request for the native resource using the instance of the native resource located in the second user isolation scope.
- 15. (Original) The method of claim 14 wherein the process executes concurrently on behalf of a first user and a second user
- 16. (Previously presented) The method of claim 14 wherein step (e) comprises failing to locate an instance of the requested native resource in the second user isolation scope.
- 17. (Original) The method of claim 16 wherein step (f) comprises redirecting the request to the application isolation scope.
- 18. (Previously presented) The method of claim 17 further comprising the steps of:
 - (d) locating an instance of the requested native resource in the application isolation scope; and
 - (e) responding to the request for the native resource using the instance of the native resource located in the application isolation scope.
- 19. (Previously presented) The method of claim 1 further comprising the steps of:
 - (d) redirecting to the isolation environment a request for a native resource made by a second process executing on behalf of a first user;

(e) locating an instance of the requested native resource in the user isolation scope;
 and

- (f) responding to the request for the native resource using the instance of the resource located in the user isolation scope.
- 20. (Previously presented) The method of claim 19 wherein step (e) comprises failing to locate an instance of the requested native resource in the user isolation scope.
- (Original) The method of claim 20 wherein step (f) comprises redirecting the request to a second application isolation scope.
- 22. (Previously presented) The method of claim 21 further comprising the steps of:
 - (d) locating an instance of the requested native resource in the second application isolation scope; and
 - (e) responding to the request for the native resource using the instance of the native resource located in the second application isolation scope.
- 23. (Currently amended) An isolation environment for isolating access by application programs to native resources provided by an operating system, the isolation environment comprising:
 - a user isolation scope storing an instance of a native resource <u>provided by</u>
 an operating system, the user isolation scope corresponding to a user; and
 - a redirector intercepting a request for the native resource made by a process executing on behalf of the user and redirecting the request to the user isolation scope.
- 24. (Original) The apparatus of claim 23 wherein the isolation environment further comprises an application isolation scope storing an instance of the native resource.

25. (Original) The apparatus of claim 24 wherein the isolation environment further comprises a second application isolation scope storing an instance of the native resource.

- 26. (Previously presented) The apparatus of claim 23 wherein the redirector returns a handle to the requesting process that identifies the native resource.
- 27. (Original) The apparatus of claim 23 further comprising a rules engine specifying behavior for the redirector when redirecting the request.
- 28. (Original) The apparatus of claim 23 wherein the redirector comprises a file system filter driver.
- (Original) The apparatus of claim 23 wherein the redirector comprises a function hooking mechanism.
- 30. (Previously presented) The apparatus of claim 29 wherein the function hooking mechanism intercepts an operation selected from a group of file system operations, registry operations, operating system services, packing and installation services, named object operations, window operations, file-type association operations and Component Object Model (COM) server operations.
- 31. (Original) The apparatus of claim 23 wherein the application isolation environment further comprises a second user isolation scope storing a second instance of the native resource.
- 32. (Original) The apparatus of claim 23 wherein the application isolation environment further comprises a second user isolation scope storing an instance of the native resource, the second user isolation scope corresponding to a second user.